

the CARRIER



the MOUNT DIABLO AMATEUR RADIO CLUB

ARRL SPECIAL SERVICE CLUB

Volume XXXX - Issue 9 - September 1993

Editor - Greydon H. Hicks, KC6SLE

Distribution: Jay Caldis, KT6Y, Walt Ebbett, KB6QIB,
and George Jones, KI6YK

The opinions expressed in the Carrier are solely those of the author and do not necessarily reflect the opinions of either the Board of Directors or membership of MDARC unless the author is a member of the MDARC Board of Directors and is speaking in an official capacity.

FROM THE PRESIDENT

It has been a quiet month at MDARC, unless there is something going on that I don't know about like an impeachment move.

Assemblyman RICHARD RAINEY was our speaker at the August meeting arranged by our VP Dick Tomsik, KJ6YE. He gave an interesting talk on the goings on in Sacramento.

The UHF bands have been rather quiet with since TIM BARRETT, WD9BIV, has been on the road for almost a month, but are beginning to pick up now that he is back. TIM was one of the early movers in PACIFICON '92. While some of us were wringing our hands on whether to take on the challenge, Tim reserved the Hilton Hotel and it went on from there.

The fall auction will again be held in September rather than October due to the proximity to PACIFICON '93. DENNIS FULLER, KC6QHH, and his crew are assembling the usual supply of exciting equipment. Even if you don't buy anything it is a fun event. Just come and watch the action and the people.

RICHARD SHAPPEE, WA5HQJ, has been nominated by the board of directors as the ham of the year for Pacific Division of the ARRL. The name of this outstanding candidate was suggested by LAUREN STYLES, WA6CIE and we ran with it. The deadline for nominations was September 1. We are rooting for our candidate.

TOM SEABURY, KC6SYG, has been appointed chairman of the nominating committee. There are a few openings in among the elected offices. I would encourage anyone who is

interested in an office or knows of anyone who might be to contact TOM.

PACIFICON '93 is moving on well. Almost all of the booths as well as hall tables are sold out and there is a lot of enthusiasm by the exhibitors. Please talk it up with your contacts. DWANE MCGLOTHIN, N6SPX, is in charge of ticket sales and would be happy to have some help. Further details are in this Carrier.

SEE YOU AT PACIFICON '93!!!!!!!

Dick Schulze, AA6DL @ KI6WE

MINUTES OF GENERAL MEETING Mt. Diablo Amateur Radio Club

August 20, 1993, 8:00 PM, 109 people in attendance.

The General Meeting was called to order by President Dick Schulze. A total of six visitors introduced themselves, including K6DWA, a Ham for 40 years, and KD6BCR from Brentwood.

A motion was made, seconded, and passed to approve the minutes of the last MDARC meeting as published in the Carrier.

Emergency Coordinator, John Stuart, gave a quick report on "Quake Net" - a use for the W6CX repeater on 147.06 MHz after an earth quake.

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Membership Chairman, George Jones informed the members that the present membership is 525. George is also looking for people to man the MDARC booth at Pacificon in October.

Dick Brown still has Pacificon watches for sale.

No report from the Carrier editor.

Stan Christain, Tres., reported a bank balance of \$8089.34. Stan also gave some information about the Mt. Diablo Medical Center. They will be having a cancer screening day soon. For information call 674-2190.

Dick Brown informed the group that Pacificon '94 might be located somewhere else due to space limitations. He stated that the Pacificon committee will be contacting the River City (Sacramento) Radio club to discuss this further.

Pete Tormey reported that Pacificon now has 37 exhibitors and plans are underway for a high altitude ATV balloon camera.

Keith Lattin gave an interesting report on the antenna tower situation on Mt. Diablo. Keith stated that both the 2 mtr. and the 220 MHz antennas have been relocated resulting in a reduced coverage area to the south and west. Keith explained the "priority" of amateurs vs commercial operators. Also the ATV transmitter will be soon upgraded.

Joe Gregory asked for operators for an upcoming horse ride in Redwood Regional Park on Sat. Sept. 18 starting at 6 AM. Joel Butler added that two other events are coming up. On Aug. 29 will be a half-day Bike event and on Sept 5 the Hexathon bike event will be conducted. Operators are needed for all these events. Call Joel at 827-0855.

Richard Shappee again invited all interested people to the monthly "Tee hunt" held each month at 7 PM at the corner of Geary Blvd and Pleasant Hill Rd. Call Richard at 682-1644 for info.

Lauren Styles reported 2242 QSO's from field day and that the complete results will be published in the November issue of QST.

The business meeting was concluded at 8:40 PM.

The speaker for the month was Assemblyman Richard Rainey who was the Contra Costa County Sheriff for many years. Assemblyman Rainey gave an interesting talk on the happenings and non-happenings in Sacramento.

The meeting was concluded at 9:50 PM.

Respectfully Submitted
Tom Seabury, Secretary, KC6SYG

MINUTES OF BOARD MEETING **Mt. Diablo Amateur Radio Club**

The August Board meeting was held at 7:30 PM on Aug. 23 at John Stuart's house in Lafayette. Present at this meeting was Dick Brown, Paul Girard, Dick Schulze, John Stuart, Dick

Tomsik, Stan Christain and Tom Seabury. George and Bertha Roush were also present. The motion to approve the minutes of the last Board meeting as they appeared in the Carrier was made. A correction was made that the minutes were submitted by Dick Brown and not Tom Seabury. They were approved with this correction.

Treasurer Stan Christain reviewed the yearly budget to date and indicated we are on track with expenditures and income.

George and Bertha Roush discussed the upcoming Christmas party and a discussion was held on the caterer and the menu. It was decided that the same caterer would be used and that the same menu (turkey) would be served.

It was moved and approved to allow the expenditure of up to \$60.00 for a sign to be used at the MDARC booth at Pacificon.

EC John Stuart had nothing to report.

Director, Dick Brown discussed the various aspects of Pacificon '94. He stated that there has been no decision to not host it yet but that discussions will be forth coming with other groups about this issue.

The motion was made and passed to nominate Richard Shappee for the ARRL Pacific Division Amateur of the Year Award. A letter written by President Dick has been forwarded to the Pacific Division.

A rather long discussion was held on a proposed Hospitality Suite at Pacificon. It was decided that the Suite be returned to the Pacificon Committee for their use, if they want it, or if they don't, to be auctioned off to the highest bidder.

The September Board meeting will be at Dick Brown's house.

Respectfully Submitted
Tom Seabury, Secretary, KC6SYG

PACIFICON '93 REPORT

PACIFICON '93 promises to be bigger and better than last year, with more technical sessions, more exhibitors, and more fun! For starters we are holding the line on prices for the advance tickets. We want PACIFICON to be an event everyone can enjoy and the best way to do that is to keep it affordable. Last year many people brought new friends into Amateur Radio by buying them an inexpensive PACIFICON ticket. We hope that spirit of friendship will continue for PACIFICON '93.

Since emergency preparedness is so important to the Amateur Radio service, we are keeping our theme of emergency preparedness for the Friday evening technical sessions. The keynote speaker will be Capt. Al Haynes. Many will remember Capt. Haynes for his heroic efforts during the crash of flight 232. We expect to draw a large crowd to hear him speak, so he has agreed to repeat his talk on Saturday morning.

We have increased the number and quality of the technical
(continued on Page 3)

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sessions for PACIFICON '93. The theme will be "Amateur Radio into the 21 Century." We are extending our efforts to bring in speakers on new and interesting technologies. I think we have some good topics like global positioning, DSP, and computer electronic circuit simulation. We will also have a session on AMSAT. As I write this, Larry Kaye W6CPO is still signing up speakers, but a preliminary list of speakers is published in this issue of the "Carrier".

For PACIFICON '93 the Hotel price includes a free breakfast! A full American style breakfast is a pretty good deal for people staying at the hotel. The Hilton also provides free transportation to Sun Valley Mall for those serious shoppers.

We are going to have two high altitude balloon launches. Many people are familiar with Bill Brown W6ELK's ATV and balloon antics and this should be fun for PACIFICON '93. If all goes well we will have two balloon launches, one on Saturday morning and the other on Sunday morning. Both launches will leave from Buchanan field and the video signal will be available at PACIFICON. The live camera will be on 434.0 MHz and will show global positioning information. Also included will be a simplex repeater on 144.34 MHz and a 10 meter beacon on 28.322 MHz. Members of our transmitter hunting group are planning to track down the electronics package. You are welcome to join them.

We will have other events at PACIFICON such as VE exams, a swap meet, emergency response vehicles, and the banquet.

Last year the banquet sold out months before PACIFICON '92. This year S. Marti-Volkoff the Regional Director for the FCC will be speaking. With all the issues facing Amateur Radio this banquet is important. Banquet tickets are selling briskly and will sell out long before PACIFICON '93 — so order yours now!

Transmitter hunting is starting to get very popular in the North Bay and we will host a transmitter hunt this year as well. Recently the PACIFICON '93 Committee voted \$150 in prizes for the transmitter hunt! That should make it competitive and fun. The transmitter hunt is set for Sunday morning.

We have a few surprises planned, so come and see the excitement of PACIFICON '93! Better yet, become a part of it. There is plenty of opportunity to help with the program. We are looking for people to help staff the MDARC booth, introduce speakers for the technical sessions, and a host of other tasks. If Amateur Radio has been good to you, donate your time back to Amateur Radio — you will be glad you did.

Thanks again for your support. As we gear up for PACIFICON '93, MDARC members will visit a lot of clubs in Northern California and as many in Nevada as we can. If we pull together on PACIFICON '93 like we did last year we can plan on many successful Pacific Division conventions.

73 Pete Tormey N6QGN @ NNY BBS
Chairman PACIFICON '93

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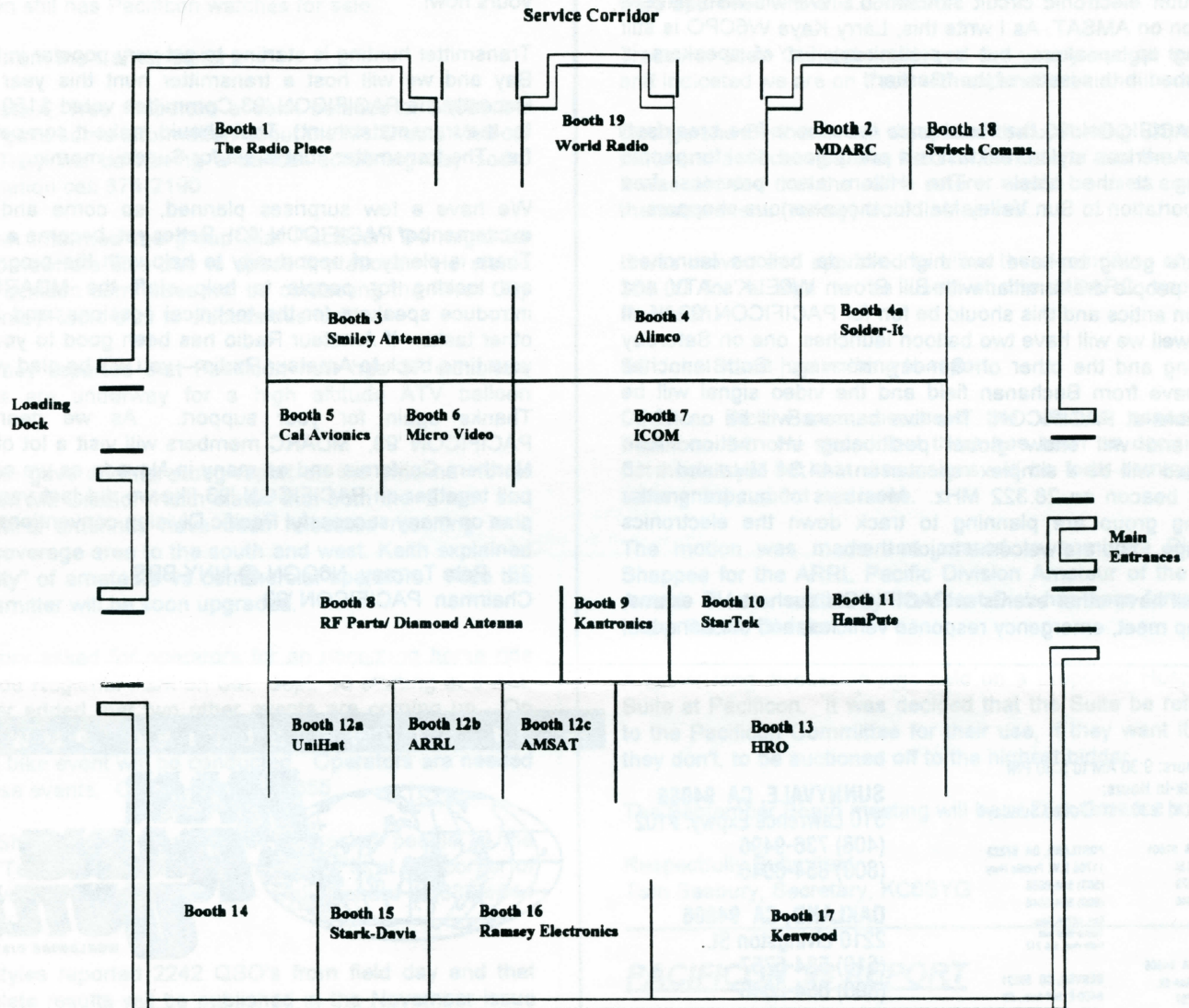

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PACIFICON '93 EXHIBITORS

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ICOM Inc.
Kantronics
Kenwood USA
MDARC
Micro Video Products

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Smiley Antennas
Stark-Davis Associates
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Swiech Communications Systems
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Table Exhibitors:

American Legion Post 380, Army MARS, Cain-White & Co., Computer Nut, Cynthia Wall KA7ITT, E. H. Yost & Co., Force 12 Antennas, No. California Packet Assoc., Q. R. Zed Engraving, The Forbes Group, Starfire Technology, Dallas Solar Power, Sounds True Recordings

ATV Balloon Launch Schedule

Preparations for the PACIFICON '93 ATV balloon launch will begin at about 0800 at Navajo Aviation hanger near the control tower at Buchanan field in Concord. Bill Brown, WB8ELK, master balloon launcher will be in charge of the launch and will be assisted by MDARC member Don Smith, N6NKF.

The airport is located about 1/2 mile north of Hilton hotel PACIFICON '93 headquarters. Weather permitting the launch will take place between 10 and 11 AM. The flight is expected to carry the balloon out over the San Joaquin Valley towards the Stockton-Modesto area. In case of bad weather or wind conditions, the backup date for the launch will be the following day, Sunday, Oct. 24, 1993, at the same time.

On board the balloon will be a 10 meter beacon with 2 meter audio on 28.322 MHz. Live camera video will be available on 434.0 MHz with global positioning information on screen. A simplex fm repeater on 144.34 MHz will also be available. After landing, the transmitter will cycle 8 seconds on 8 seconds off for T-hunt teams. Bill Brown will describe the details of the electronics package during a technical sessions scheduled for Saturday afternoon.

Right after lift-off, transmitter hunters will set off to track the flight and recover the electronics package (Transmitter hunters note: The Sunday morning transmitter hunts will have prizes awarded -- not the balloon transmitter hunt). If all goes well with the Saturday launch (and the electronics package survives!) a second launch will take place on Sunday morning at the same time.

Live video from the balloon will be available on the ATV repeater and at the ATV console during PACIFICON '93. Video tape of the flight and preparations will be broadcast on the ATV repeater during PACIFICON.

Pete Tormey, N6QGN 2 NNY BBS

HAMS AND THE CC COUNTY FAIR

Over the previous 4 years, the Contra Costa County Sheriff's ARC (Amateur Radio Communications) Team, (formerly known as the Sheriff's Uniformed Amateur Radio Unit) has provided backup communications as well as additional "eyes and ears" for Sheriff's Department reserve deputies working the Contra Costa County Fair security detail. Again, the ARC-Team's assistance was requested this year, not only in a communications support role, but also to be responsible for the "lost child/lost parent" detail. This provided a much-needed service for the fair and parents, and also freed the reserve deputies to concentrate on law enforcement activities, resulting in a more efficient use of available resources.

The ARC-Team used a simplex net, which provided more-than-adequate coverage over the entire fairgrounds using low power. ARC-Team members were deployed in pairs, and maintained constant contact with our net control (who was also in constant contact with the Sheriff's Department dispatcher over the Department frequencies).

ARC-Team personnel worked Friday and Saturday evenings (August 6 and 7) from about 5 PM to midnight. During these periods, twelve lost children/parents were reunited.

The following ARC-Team members, all members of MDARC, participated in this event: Bill Brimmer, N6LZM; Allie Daneman, KD6LYM; Steve Donovan, WB6SAI; Pavan Gill, KD6MFL; and Reserve Lt. Clay Yale, N6YBQ, who is in charge of the ARC-Team. Reserve Sgt. Derek Brown, N6CUK, supervised and organized the event support.

Again, the Sheriff's Department was very appreciative of the services provided by the ARC-Team. During these two evenings, the ARC-Team contributed about 70 hours.

Derek Brown, N6CUK @ PG&E LAN

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MEMBERSHIP DIRECTORY UPDATE

by George Jones, K16YK

It is with great pleasure we welcome the following new members:

- BEVIER, Laird D. (Larry); KD6ZMH, Technician
1650 Frisbie Ct. #5, Concord, CA 94520
(510)676-9357(h), (510)658-3632(w)
- DODD, Casey; KD6VCR, Technician
16 Canterbury Ct., Brentwood, CA 94513
(510)634-7340(h)
- GARDNER, Jerry; NJ6A, Extra
2236 Tahiti Drive, San Ramon, CA 94583
(510)-735-7325(h)
- LINIGER, Richard H. (Dick); KD6ZMS, General
232 Briar Drive, Martinez, CA 94553
(510)370-1068(h), (415)556-2100(w)
- LOCKETT, Robert N.; KD6ZMQ, Technician
450 Bolla Place, Alamo, CA 94507
(510)820-6432(h), (510)272-8024(w)
- LOCKETT, Jamie S.; KD6ZMR, Technician
450 Bolla Place, Alamo, CA 94507
(510)820-6432(h)
- LOUDA, Chuck; K16UT, Extra
713 Parkway Drive, Martinez, CA 94553
(510)229-9356(h), (510)464-7233(w)
- LYTLE, John H.; KD6ZMP, Technician
2700 Monterey Ave., Martinez, CA 94553
(510)228-0959(h)
- SHEPHERD, Clay W.; N7IHU, Technician
118 Harris Circle, Bay Point, CA 94565
(510)458-3347(h), (510)676-0200(w)
- WALLACE, James W., Jr. (Jim); WB6LQG, General
3609 Timmothy Place, Antioch, CA 94509
(510)778-6763(h)
- WALLACE, Laura M.; SWL
3609 Timmothy Place, Antioch, CA 94509
(510)778-6763(h)
- WANG, Margaret L.; KD6YJG, Technician
510 N. Civic Dr. #D, Walnut Creek, CA 94596

Congratulations to the following on his upgrade and new call:

Larry Miller: Technician, KD6ZUJ

The call for Mike Olson was incorrectly listed here in last month's Carrier. It is KD6KFU.

Also, the work phone for Bruce Gilbaugh was incorrect. It is (415) 604-5880.

Please note the following changes:

Gerald Bitner's new address is 33 San Marino Court, Walnut Creek, CA 94598-3114.

Jack Campbell's new address is 342 Quail Drive, Grand Junction, CO 81503-2527.

Chuck Haist's new address is 2663 Saklan Indian Dr. #1, Walnut Creek, CA 94595.

Scott Thomas's new address is 2005 N. 32nd Pl., Mt Vernon, WA 98273

Please be sure to notify the Membership Chairman at the club P.O. Box of any changes in your license class, call, address or phone numbers.

Twenty-two percent of the club members belong to family memberships and 12% are women. There are quite a few youngsters who are members and lots of senior citizens. There are non-hams and handicapped hams, coded hams and no-coded hams. There are retired hams, working hams, single hams and distant hams. MDARC has a membership of great diversity. Now, while the dues are at a low \$7.50, would be a great time to encourage your friends and sweethearts to join the club.

MEETING VISITORS

We were very pleased to welcome the following guest at our August general meeting:

Rob Core, KD6ZMG, 2924 Honeynut St., Antioch, CA 94509. We hope Rob will be joining us soon.

Judi Judkins, SWL, 3710 Harmony Way, Concord, CA 94519. Judi is Kent's XYL and will be a family member soon.

"Hawk" Magnussen; 60 Coachwood Terrace, Orinda, CA 94563. Hawk's call, K6DWH, has expired, but we certainly hope he'll be back among the active Hams before long.

James S. Whitely, Jr., W6LTI, 3843 Concord Blvd., Concord, CA 94519. James was an MDARC member in the 1950s. We look forward to his rejoining us in the near future.

The 11th Annual SCRA

Indoor/Outdoor Flea Market/Auction

Sebastopol, CA Saturday, Sept 18

*** FREE ADMISSION ! ***

LOCATION: One hour north of the Golden Gate bridge. The Holy Ghost Soc. hall, 7960 Mill Stn. Rd, just N of Sebastopol on Hwy 116. Talk-in 146.73-. Plenty of free parking.

7:30 AM to 2 PM. Seller setup starts 6:30.
FOOD: Breakfast and lunch will be available.

FCC LICENSE EXAMS for all classes of Amateur FCC licenses will be held. Bring the original and a copy of your license, any CSCE's, photo ID and your checkbook.

SELLERS: Reserve in advance for best spots. **INDOOR** or **OUTDOOR** selling areas, \$10 each. New larger outdoor selling spaces this year with improved parking lot layout. Tables are provided for indoor spaces only.

Questions? Rick K6ZWB 707-542-6907.

The Royal Order of the Wouff Hong

PACIFICON'93, as an official Division Convention, is eligible to initiate ARRL Ham members into the Royal Order of the Wouff Hong. Such an initiation will take place Saturday night, October 23, 1993, at the conclusion of the convention banquet or midnight, whichever comes later.

The ritual of initiation was first held in the early 1930's. Since that time, many thousands have joined the order. There is no charge for membership and members receive a certificate indicating their acceptance into the Order. What is the ROWH, you may ask. Without breaking the oath of secrecy that all its members take, we can tell you it is an honorary society dedicated to insuring that radio amateurs conduct themselves and their stations and their operating practices in an exemplary manner. Should they stray or transgress they will be held accountable. The penalty for their crime is centered in the terrible threat of the Wouff Hong and T.O.M.

If you wish to know more, and if you are qualified to join by virtue of being a member of the ARRL, be there on Saturday night for the ceremony.

T.O.M

LAS TRAMPAS TRAILRIDE

The Las Trampas Trailride is scheduled for Saturday, September 18, 1993. A total of eight volunteer radio operators are needed for stations in Redwood and Anthony Chabot Regional Parks, the Oakland Hills base camp and the starting point at Bort Meadow off of Redwood Road. Please call Joe Gregory, WA6DQN, at (510) 283-6560 to sign up for this event and for further details.

Joe Gregory, WA6DQN @ USPO

MDARC'S PRESIDENTS

Over the past forty-six years, the following members have served as president of the Mount Diablo Amateur Radio Club, as far as we know. This list, with call at the time, is roughly chronological:

Bud Stedinger, W6CX
Pete Peterson, W6LGW
Murray Douglas, W6CUG
Leon Pate, W6JUW
Dick Wallace, W6TCU
John Hopkins, K6AQ
Harry Cameron, W6RVC
Jim Hilliard, W6CGS
Fred Caudel, W6DEX
Ed Fox, W6OHR
Al Meyers, W6LIL
Bob Short, K6DEL
Phil Reiben, K6KRF
John Terry, K6PIL
Jerry Harvey, K6TFB
George Kirkman, WA6DKG
Loren Young, WA6FBS
John Howell, WA6MIE
Dave Jehlik, WA6PUF
Dave Domes, W6LNK
John Bertram, WB6TZR
Fred Sabott, WA6JLF
Art Mayoff, VE2AQV
Carl Cook, WA6JUD
Orville Owen, W6BSL
Ted Durst, W6PFW
Dick Webster, WA6OJT
Hank Herting, W6AMH
Chuck Welch, WA6MWU
Dick Brown, KT6X
Bob Dahl, KA6LSL
Harry Styron, K6MFV
Rick Barber, WB6EZI
Scott Miles, WB6PQM
Vicki Zumwalt, N6KLS
Derek Brown, N6CUK
Pete Tormey, N6QGN
Dick Schulze, AA6DL

If you are aware of any errors or omissions in the above, please be sure to let us know at the club P.O. Box, or call me at 837-9316.

-George Jones, K16YK-

PACIFICON '93 TECHNICAL SESSION SCHEDULE

Friday, October 22

(All sessions in the Ohm/Morse rooms)

- 1730-1830 Chief Jerry Boyd, Martinez Police Department
Impact of Emerging Technology on Emergency Communications
- 1900-2000 Art Botterrel, Telecommunication manager Region II OES
New technology in the state communications systems
- 2030-2130 Captain Al Haynes, United Airlines (retired)
The crash of flight 232

Saturday, October 23

- 0900-1000 Ohm/Morse Rooms, Captain Al Haynes, The Crash of Flight 232
- 1015-1100 Ohm Room, Jon Bloom, ARRL Technical department:
Trends in Amateur Radio
Morse Room, Northern California Contest Club: Future of Contesting
Marconi Room, Jeff Jones: Beginning HF
- 1115-1200 Ohm Room, Richard Blasco, HamPute: DSP in Amateur Radio equipment
Morse Room, Stuart Fox: Computer Controlled Band Monitoring
Marconi Room, John Smith: PACTOR/CLOVER
- 1215-1300 Ohm Room, Randy Roberts, Spread Spectrum Scene: Digital Communications for the 21st century
Morse Room, NCPA: TCPIP and other advanced packet topics
Marconi Room, Rich Harrington: Transmitter hunting
- 1315-1400 Ohm Room, Randy Roberts (Continued)
Morse Room, Jim Maxwell: Future of DX'ing
Marconi Room, Ron Luttringer: Computer Control of Ham Equipment
- 1415-1500 Ohm Room, NCPA: Beginning Packet
Morse Room, Trimble Navigation: The Global Positioning System
Marconi Room, Ed Mitchel: Airborne ATV Platform
- 1515-1600 Ohm Room, NCPA: Beginning Packet (Continued)
Morse Room, Chris Imlay, ARRL legal consul: Amateur Radio legal topics
Marconi Room, Jeff Jones: QRP technology
- 1615-1700 Ohm Room, NCPA: Beginning Packet (Continued)
Morse Room, Bill Brown: Balloon Launched ATV Platform
Marconi Room, Roger Gathers: Understanding the Transmatch

Sunday, October 24

- 0900-0945 Ohm/Morse Rooms, Chris Imlay, ARRL Legal consul:
Antenna Ordinances
- 1000-1045 Ohm/Morse Rooms, Jon Bloom, ARRL Technical Department: DSP in Amateur Radio
Marconi Room, Phil Anderson, Kantronics/RF Concepts:
9600 Baud Packet; a 60 watt 2M HT amplifier
- 1100-1145 Ohm/Morse Room, John Conkle, Delfin Systems:
Advanced Direction Finding techniques

Marconi Room, Jeffrey Pawlan: Introduction to SPICE.

- 1200-1245 Ohm/Morse Rooms, Jim Maxwell: Why CW?
Marconi Rooms, Jeffrey Pawlan (Continued)
- 1300-1345 Ohm/Morse Rooms, Tom Schiller, Force 12: Antennas
Marconi Room, Jeffrey Pawlan (Continued)
- 1400-1600 Ohm/Morse ARRL Forum

DESCRIPTIONS OF SELECTED TALKS

Chief Jerry Boyd: The impact of Emerging Technology on Emergency Communications

Jerry, KG6LF, has been licensed for 34 years and a law enforcement professional for 26 years. He has written many articles for QST, CQ, and World Radio. He is a member of the California Emergency Services Association and is active in emergency communications, packet, ATV, DX-ing and contests.

The talk will cover such topics as the increased use of satellite communications, the Global Positioning Service, and computer driven emergency response notification of RACES/ARES members.

Captain Al Haynes: The Crash of Flight 232

Al Haynes is a retired United Airlines pilot. He was at the controls of flight 232 on July 19, 1989 when the number two engine failed leaving the aircraft marginally controllable.

His talk will tell the story of the crash landing and show how a combination of luck, communications, preparation, execution and cooperation saved 184 people in that incident.

Jim Maxwell, W6CF

Jim will present two talks at Pacificon. The first, the Future of DXing will discuss the changes which this part of Amateur Radio has undergone as technology has evolved. There will be additional discussion of where these changes are heading.

The second talk, Why CW? will cover a bit of CW history and give the listener a better understanding of this phase of Amateur Radio operation.

Stuart Fox, KM7V

Stuart's talk will describe some of the more common applications for a computer in the ham shack and specifically how ham operators can monitor bands and control remote equipment under computer control.

Phil Anderson, Kantronics/RF Concepts

This talk will be in two parts. One will discuss 9600 baud packet radio and how it differs from the 'normal' packet we all use. The second part will describe the design of a 60 watt power amplifier suitable for use with 2M hand held radios.

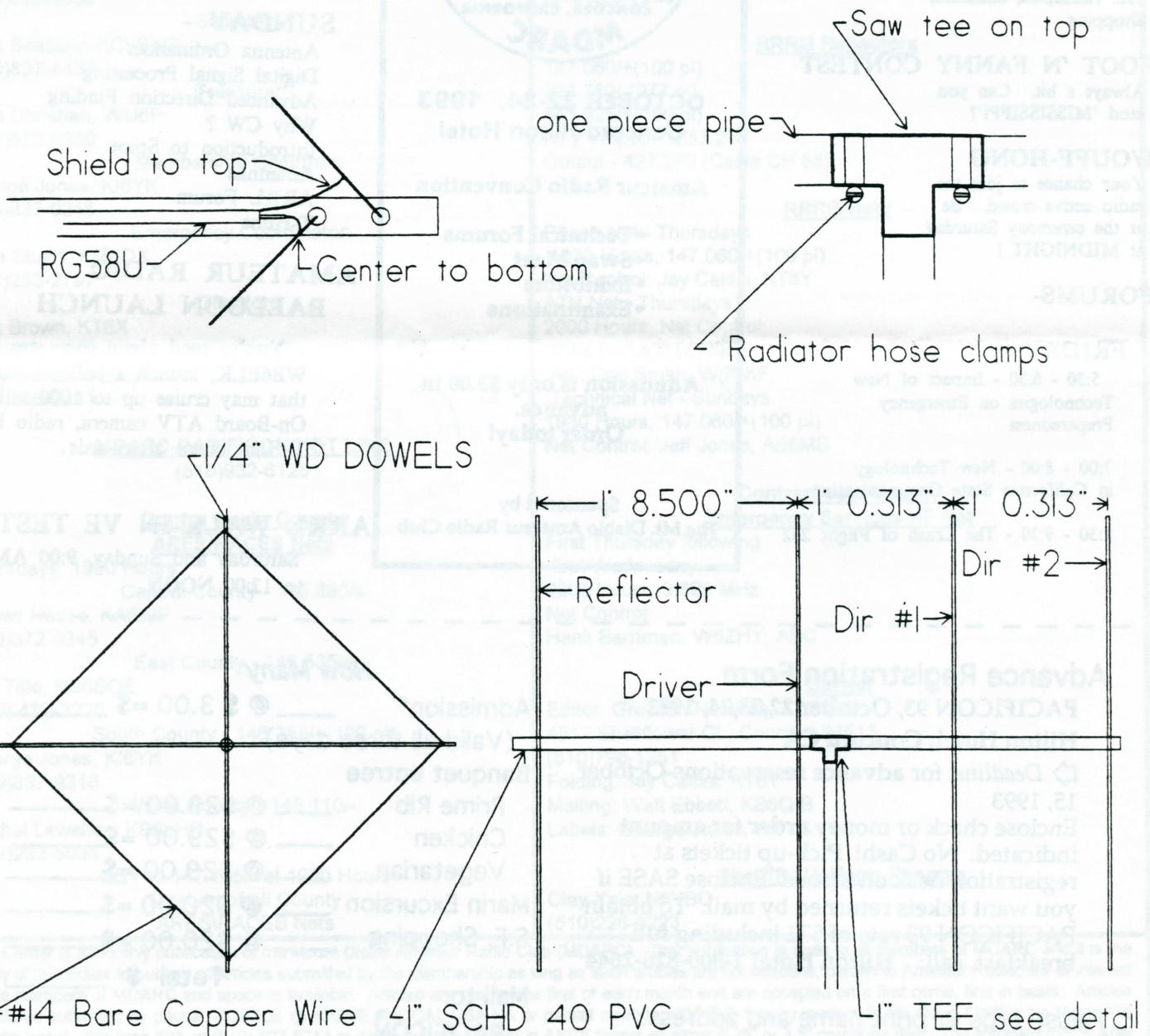
ELEMENT	ELEMENT LENGTH	HOLE TO HOLE
REFLECTOR	86 1/8"	30 1/8"
DRIVER	81"	28 5/16"
DIRECTOR #1	77 15/16"	27 1/4"
DIRECTOR #2	74"	25 7/8"

TWO METER ANTENNA

W6YPE CARS APRIL 1993

Use this cut TEE detail to allow for polarity changes.

This detail explains the hook-up of RG58U



SWAP MEET - Saturday Morning

Free admission, \$10.00 for sellers
Double wide spaces
7 AM until Noon

BALLOON LAUNCH

Join the T-Hunt search,
beacons on 2 M and 10 M.
1000 mile cruise range

TOURS AND EXCURSIONS

Marin County - Muir Woods,
Mt. Tamalpais, Sausalito,
Shopping

FOOT 'N FANNY CONTEST

Always a hit, Can you
send 'MISSISSIPPI'?

WOUFF-HONG

Your chance to join the
radio active crowd. Be
at the ceremony Saturday
at MIDNIGHT !

FORUMS-**FRIDAY -**

5:30 - 6:30 - Impact of New
Technologies on Emergency
Preparedness

7:00 - 8:00 - New Technology
in California State Communications

8:30 - 9:30 - The Crash of Flight 232

**The Pacific Division Convention
of the
American Radio Relay League**



OCTOBER 22-24, 1993
Concord Hilton Hotel

Amateur Radio Convention

- Technical Forums
- Swap Meet
- Exhibitors
- Examinations

**Admission is only \$3.00 in
advance.
Order today!**

Sponsored by
The Mt. Diablo Amateur Radio Club

SATURDAY -

Trends in Amateur Radio
Future of Contesting
Digital Signal Processing
Control and Analysis of Satellites
Spread Spectrum - Digital
Communications for the
21st Century
Transmitter Hunting
Future of DX'ing
Beginning Packet
TCP/IP and other Advanced
Packet Topics
Amateur Radio Legal Topics
QRP Technology

SUNDAY -

Antenna Ordinances
Digital Signal Processing
Advanced Direction Finding
Why CW ?
Introduction to Spice
Antennas
ARRL Forum
T-Hunt

**AMATEUR RADIO
BALLOON LAUNCH**

You've read about, now see Bill,
WB6ELK, launch a balloon package
that may cruise up to 1000 miles.
On-Board ATV camera, radio beacon,
T-Hunt chase afterwards.

ARRL WALK-IN VE TESTING

Saturday and Sunday, 9:00 AM
to 12:00 NOON.

Advance Registration Form

PACIFICON 93, October 22,23,24, 1993

Hilton Hotel, Concord CA

☞ *Deadline* for advance reservations-October
15, 1993

Enclose check or money order for amount
indicated. No Cash! Pick-up tickets at
registration desk on arrival. Enclose SASE if
you want tickets returned by mail. To obtain
PACIFICON 93 rate of \$72 including full
breakfast, call: **Hilton Hotel 1-800-826-2644**

Please type or print name and address.

Name _____ Call _____

Address _____

City _____ State _____ ZIP _____

How Many

Admission* _____ @ \$ 3.00 = \$ _____

(Valid all three days)

Banquet entree

Prime Rib _____ @ \$29.00 = \$ _____

Chicken _____ @ \$29.00 = \$ _____

Vegetarian _____ @ \$29.00 = \$ _____

Marin Excursion _____ @ \$20.00 = \$ _____

S.F. Shopping _____ @ \$20.00 = \$ _____

Total \$ _____

Mail to:

PACIFICON

P.O. Box 272613

Concord CA 94527

Info. (510) 932-6125

* \$5.00 at door

The Mount Diablo Amateur Radio Club

P.O. Box 23222
Pleasant Hill, CA 94523

Meetings:

Third Friday Each Month
8:00 PM / 2000 hours
Our Savior Lutheran Church
1035 Carol Lane, Lafayette, CA

Club Officers

President:

Dick Schulze, AA6DL
(510)935-5000

Vice President:

Dick Tomsik, KJ6YE
(510)825-1336

Secretary:

Tom Seabury, KC6SYG
(510)837-4433

Treasurer:

Stan Christian, WU6P
(510)672-0330

Membership Chairman:

George Jones, KI6YK
(510)837-9316

Emergency Coordinator:

John Stuart, KM6QX
(510)283-2797

Directors:

Dick Brown, KT6X
(510)676-9048
Larry Gansz, KB2GV
(510)356-2411

MDARC-PACIFICON HOT LINE

(510)932-6125

Contra Costa County ARES/RACES Nets

Thursdays, 1900 Hours

Central County - 145.680/s

James House, KA6IVF
(510)372-0345

East County - 146.535/s

Jim Title, KC6SOE
(510) 432-3220

South County - 146.355/+(100 pl)

George Jones, KI6YK
(510)837-9316

West County - 145.110/-

Rachel Lewellen, KB6LHR
(510)233-5034

QSY to 147.735/- at 1920 Hours

Meeting of all County
ARES/RACES Nets

The Rocky Ridge Repeater Group

P.O. Box 23222
Pleasant Hill, CA 94523

Next Meeting:

Third Wednesday Of Odd Months
8:00 PM / 2000 hours
Stonebrook Convalescent Center
4367 Concord Blvd., Concord, CA

Club Officers

Chairman:

Dwane McGlothlin, N6SPX
(510)798-2868

Technical Chairman:

Mike Burke, KB6RMT
(510)682-7296

RRRG Repeaters

147.060/+(100 pl)
224.780/-(077 pl)
441.325/+(100 pl)
ATV - Input - 1253.250
Output - 427.250 (Cable CH 58)

RRRG Nets

Phone Net - Thursdays

1930 Hours, 147.060/+(100 pl)

Net Control: Jay Caldis, KT6Y

ATV Net - Thursdays

2000 Hours, Net Control:

Mike Burke, KB6RMT,

Alt.: Don Smith, W6NKF,

Technical Net - Sundays

1930 Hours, 147.060/+(100 pl)

Net Control: Jeff Jones, AB6MB

Contra Costa County Emergency Services HF Net

First Thursday following

first Wednesday,

2000 Hours, 3.895 MHz

Net Control:

Hank Berriman, W6ZHY, AEC

Carrier

Editor: Greydon H. Hicks, KC6SLE

4517 Shellflower Ct., Concord 94518

(510)798-1251

Folding: Jay Caldis, KT6Y

Mailing: Walt Ebbett, KB6QIB

Labels: George Jones, KI6YK

Sheriffs' Uniform Reserve

Clay Yale, N6YBQ

(510)228-8223

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). This publication is open to all members of MDARC and it is the policy of this Editor to publish all articles submitted by the membership as long as such articles are not obscene, pertain to Amateur Radio, are of interest to the members of MDARC and space is available. Articles are due by the first of each month and are accepted on a first come, first in basis. Articles should be submitted by packet, KC6SLE @ KI6WE.#NOCAL.USA.NA or packet mailbox, KC6SLE-1 or by modem to the Doug Smith's No Name Yet bulletin board, File area #23, at (510) 827-5714 or delivered to the Editor in ASCII format on either 5.25" or 3.5" computer disk. The standard font is Arial 9 point. The Editor's address can be found in the Carrier or MDARC Membership Directory. Articles published in the Carrier may be reproduced provided that such reproduction credits both MDARC and the author of the article. Copyrighted articles will not be accepted for publication in the Carrier.

CALENDAR OF EVENTS		
Livermore Swapmeet	Las Positas College Livermore	First Sunday Each Month All Year, 7 AM to Noon
RACES Monthly Meeting	State OEC, Civic Dr. Pleasant Hill	First Wednesday , Every Month, 7:30 PM
MDARC T-Hunt	Location TBA	Second Saturday of each month.
MDARC GM Meeting/ Auction	Our Savior Lutheran Church 1035 Carol Lane, Lafayette	September 17, 1993 8:00 PM
RRRG General Membership Meeting	Stonebrook Convalescent Center, 4367 Concord Blvd, Concord	Wednesday, September 15, 1993 8:00 PM
Deadline for Carrier Articles	NA	Friday, September 1, 1993
Sunnyvale VE Exams	Con Fire Training Center, Concord	October 3, 1993, 1:00 pm December 2, 1993, 1:00 pm
Solono VE Team Exams	Fairfield Senior Center	Last Saturday Each Month
Pacificon '93	Concord Hilton	October 22-24, 1993

The Carrier
a newsletter of the
Mount Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523



FIRST CLASS MAIL

MDARC GM Meeting is September 17, 1993!
RRRG MEETING IS September 15, 1993!

City _____ State _____ ZIP _____

Info. (510) 932-6125